

## **Design Ideas**

### Idea 1: Pipe Idea

- Pros: Cheap, no electronics, not complex system, easy to repair,
- Cons: cant see fish movement, round funnel and square nets not compatible,
- Additional Thoughts:

### Idea 2: Funnel with roller and UHMW slide

- Pros: fish are in the open, tank is in the open,
- Cons: water run-off, fish getting stuck, adjust funnel opening,
- Additional Thoughts: sliding frame over tub to keep modular, (rubber made basket)

### Idea 3: Chute with rollers

- Pros: adjustability, see the fish in the system, cycles vaccination water, portable use,
- Cons: pump is expensive, electricity with water not good,
- Additional Thoughts: dump cup of water in chute after dumping in the fish into chute to wash them down if they are stuck

### Idea 4: Tank with three entries

- Pros: 3 different runs,
- Cons: need to perforate skin before entering vaccine, needs external force to poke fish,
- Additional Thoughts:

### Idea 5: Bed of nails idea?

- Pros:
- Cons:
- Additional Thoughts:

### Idea 6: Perforated basket and roller basket

- Pros: vaccine fluid stays in one location, high number of perforations, no moving parts,
- Cons: more expensive in rollers, hard to seal, not easily adjustable
- Additional Thoughts:

#### Idea 7: Perforated basket and roller basket hinged

- Pros: vaccine fluid stays in one location, no complex parts
- Cons: more expensive in rollers, hard to seal, hinges get gummed up, hard to clean
- Additional Thoughts: